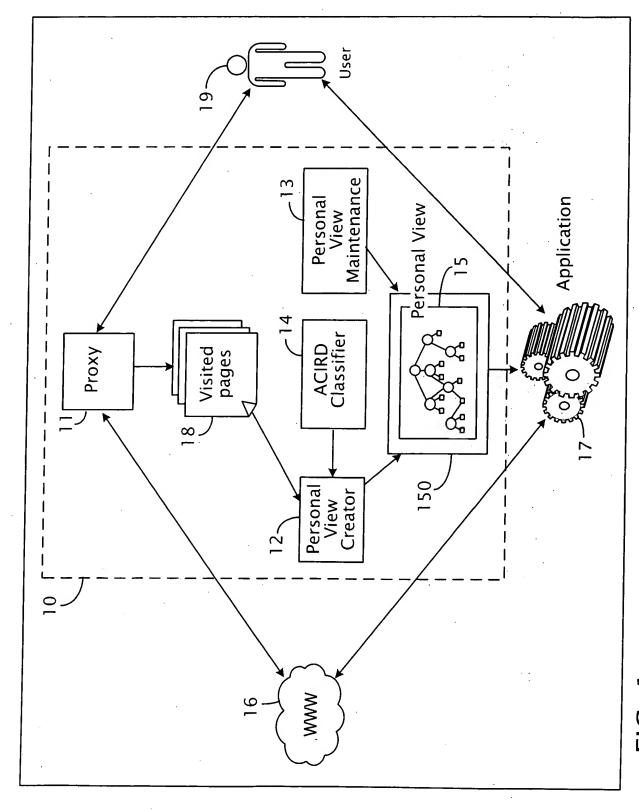
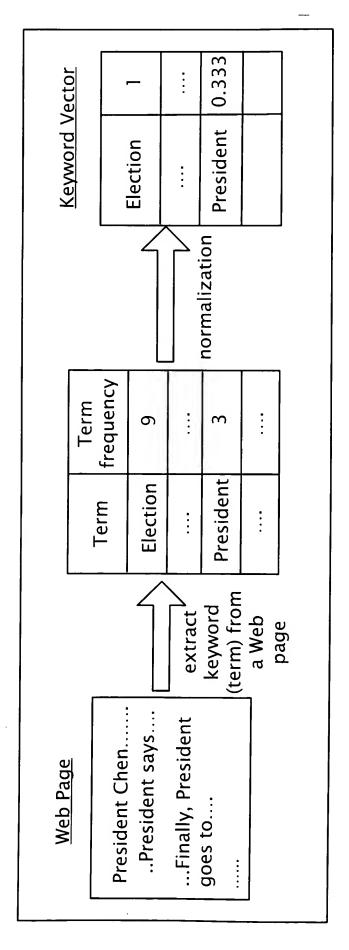
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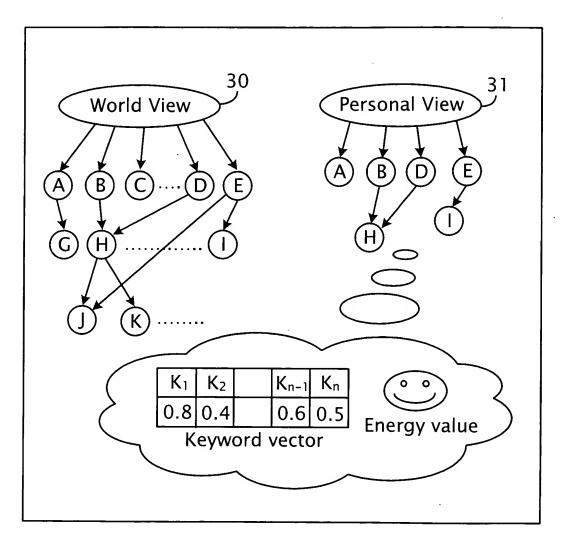


FIG. 3

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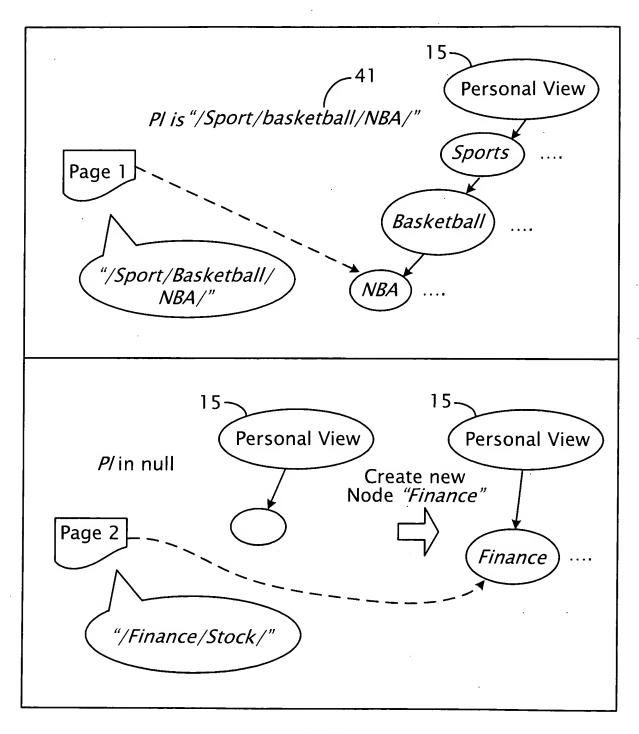
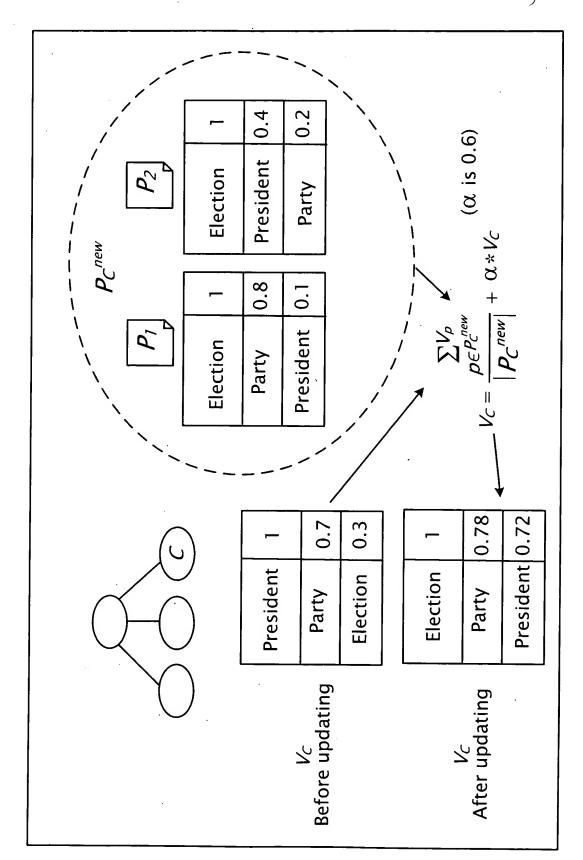


FIG. 4

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For each category c in the Personal View

While (E_c > threshold) $c_{child} = ARGMAX_{c_{child}} \ \ in \ c \ \{SplitGain(c \ , c_{child})\}$ Create the category c_{child} in the Personal View;
Update the energy value of c;
Calculate the energy value of c_{child} ;
Calculate the keyword vector of c_{child} ;
Update the keyword vector of c;

End While; End For;

FIG. 6A

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For each category c in the personal view

 $E_c = E_c - \beta$

If $E_c <= th$ then

Update the keyword vector of c's parent;

Remove category c from the personal view;

End If;

End For;

FIG. 6B